

## **Engineering Note** M. Utes

Date: 2/9/04

Project: Detector Hybrids Doc. No: U040209A

Subject: Hybrid Pre-Manufacture Layout Checklist

The following list should be checked prior to sending layout to hybrid manufacturer.

	1. General placement of top layers, (Traces, Solder, Bond)
	2. Solder Mask Placement
	3. Top Layer and Via Layers
	4. GNDs on correct pads
	5. Power to correct pads
	6. No power vias below power layer
	7. Via clearance 10 mils
	8. GND under all traces
	9. Trace to trace spacing (crosstalk)
	10. Differential pair spacing vs. adjacent trace spacing
	11. Nut Placement
	12. Chip placement
	13. Connector placement
	14. Proper stairstep per layer
	15. All vias where necessary
	16. Layer 3 via for every layer 7 via
	17. No traces connecting to layer 3 vias or layer 7 vias
	18. No traces under analog ground
	19. Bypassing/decoupling scheme
	20. Drill hole placement
	21. Silk designators match parts
	22. Components connected to correct nets
	23. Double-check schematic
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Checked by: Date:	